



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

Complete If Known

Application Number	10/788,491
Filing Date	March 1, 2004
First Named Inventor	MOORE, Brian
Art Unit	2829
Examiner Name	N/A Nguyen, Jimmy

Attorney Docket Number 11157-73

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AV		US-3,689,885	09-05-1972	Kaplan et al.	
		US-4,002,974	01-11-1977	Thomas	
		US-4,105,950	08-08-1978	Dingwall	
		US-4,392,105	07-05-1983	McLeod	
		US-4,517,532	05-14-1985	Neldorff	
		US-4,587,480	05-06-1986	Zasio	
		US-4,985,681	01-15-1991	Brunner et al.	
		US-5,030,908	07-09-1991	Miyoshi et al.	
		US-5,039,602	08-13-1991	Merrill et al.	
		US-5,059,899	10-22-1991	Farnworth et al.	
		US-5,068,521	11-26-1991	Yamaguchi	
		US-5,095,267	03-10-1992	Merrill et al.	
		US-5,113,184	05-12-1992	Katayama	
		US-5,149,662	09-22-1992	Eichelberger	
		US-5,192,913	03-09-1993	Gonganthu et al.	
		US-5,204,559	04-20-1993	Deyhimy et al.	
		US-5,248,936	09-28-1993	Nakata et al.	
		US-5,252,914	10-12-1993	Bobbitt et al.	
		US-5,266,890	11-30-1993	Kumbasar et al.	
AV		US-5,279,975	01-18-1994	Devereaux et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AV		EP 0 098 399 B1	06-04-1986	International Business Machines Corporation		
AV		EP 0 651 505 A1	05-03-1995	International Business Machines Corporation		
AV		EP 0 702 238 A1	03-20-1996	SGS-Thomson Microelectronics Ltd.		
AV		EP 0 911 640 A2	04-28-1999	NEC Corporation		

Examiner Signature

Jimmy Nguyen

Date Considered

10/29/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

08/04

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 5

Complete If Known

Application Number	10/788,491
Filing Date	March 1, 2004
First Named Inventor	MOORE, Brian
Art Unit	2829
Examiner Name	Nguyen A. Vinh

Attorney Docket Number 11157-73

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ³ (if known)			
av		US- 5,315,241	05-24-1994	Ewers	
1		US- 5,365,204	11-15-1994	Angiulli et al.	
		US- 5,448,395	08-29-1995	Goto	
		US- 5,457,400	10-10-1995	Ahmad et al.	
		US- 5,619,483	04-08-1997	Malhi	
		US- 5,625,288	04-29-1997	Snyder et al.	
		US- 5,714,888	02-03-1998	Naujoks	
		US- 5,790,479	08-04-1998	Conn	
		US- 5,811,983	09-22-1998	Lundberg	
		US- 5,818,250	10-06-1998	Yeung et al.	
		US- 5,867,033	02-02-1999	Sporck et al.	
		US- 5,892,368	04-06-1999	Nakata et al.	
		US- 5,905,383	05-18-1999	Frisch	
		US- 5,923,676	07-13-1999	Sunter et al.	
		US- 5,952,840	09-14-1999	Famworth et al.	
		US- 5,963,043	10-05-1999	Nassif	
		US- 5,983,363	11-09-1999	Tuttle et al.	
		US- 5,994,915	11-30-1999	Famworth et al.	
av		US- 5,995,428	11-30-1999	Chien et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
av		WO 97/15838	05-01-1997	Opmox Inc.		
av		WO 99/16107	04-01-1999	Frequency Technology, Inc.		
av		WO 99/17353	04-08-1999	Siemens Aktiengesells- chaft		✓
av		WO 99/32893	07-01-1999	Conexant Systems, Inc.		
av		WO 99/65287	12-23-1999	Orbotech Ltd.		

Examiner Signature	<i>Jimmy Nguyen</i>	Date Considered	10/29/04
--------------------	---------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

08/04

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 5

Complete If Known	
<i>Application Number</i>	10/788,491
<i>Filing Date</i>	March 1, 2004
<i>First Named Inventor</i>	MOORE, Brian
<i>Art Unit</i>	2829
<i>Examiner Name</i>	Nguyen, Jimmy
<i>Attorney Docket Number</i>	11157-73

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. *	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ^a (if known)			
PR		US- 6,999,009	12-07-1999	Mitsui	
		US- 8,005,407	12-21-1999	Arabi et al.	
		US- 8,005,829	12-21-1999	Conn	
		US- 6,057,699	05-02-2000	Yin et al.	
		US- 8,058,497	05-02-2000	Tuttle	
		US- 6,069,849	05-30-2000	Kingsley et al.	
		US- 6,075,417	06-13-2000	Cheek et al.	
		US- 6,087,842	07-11-2000	Parker et al.	
		US- 6,097,203	08-01-2000	Parker et al.	
		US- 6,119,255	09-12-2000	Akram	
		US- 6,133,582	10-17-2000	Osann, Jr. et al.	
		US- 6,134,191	10-17-2000	Alfke	
		US- 6,161,205	12-12-2000	Tuttle	
		US- 6,166,607	12-26-2000	Schoellkopf	
		US- 6,169,694 B1	01-02-2001	Nam et al.	
		US- 6,184,696 B1	02-06-2001	White et al.	
		US- 6,189,120 B1	02-13-2001	Akram	
		US- 6,219,305 B1	04-17-2001	Patrie et al.	
		US- 6,223,314 B1	04-24-2001	Arabi et al.	
PR		US- 6,236,223 B1	05-22-2001	Brady et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature	Jimmy Nguyen	Date Considered	10/29/04
--------------------	--------------	-----------------	----------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

08/04

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/31/2006. GMB 0831-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 5

<i>Complete If Known</i>	
<i>Application Number</i>	10/788,491
<i>Filing Date</i>	March 1, 2004
<i>First Named Inventor</i>	MOORE, Brian
<i>Art Unit</i>	2829
<i>Examiner Name</i>	Nguyen, Jimmy
<i>Attorney Docket Number</i>	11157-73

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature	Tanner, Niamon	Date Considered	10/29/06
-----------------------	----------------	--------------------	----------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **Applicant's unique citation designation number (optional).** ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

08/04

PTO/SB/08b(08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Application Number</i>	10/788,491
(Use as many sheets as necessary)				<i>Filing Date</i>	March 1, 2004
				<i>First Named Inventor</i>	MOORE, Brian
				<i>Art Unit</i>	2829
				<i>Examiner Name</i>	<i>Nguyen, Jeremy</i>
Sheet	5	of	5	Attorney Docket Number	11157-73

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
AV		ARABI, K. et al. "Digital Oscillation-Test Method for Delay and Stuck-at-Fault Testing of Digital Circuits", International Test Conference, 1998, pp. 91-100		
AV		FERNALD, Kenneth W. et al, "A Self-Tuning Digital Telemetry IC for Use in a Microprocessor-Based Implantable Instrument - IEEE Journal of Solid-State Circuits - Vol. 27, No 12 (Dec. 1992) - Pages 1826-1832		
AV		KANG, Sung-Mo (Steve) & Yusuf Leblebici, CMOS Digital Integrated Circuits - 1999 - pages 220-242, Chaps 6, 9, 11, 15		
AV		SCHRODER, Dieter K., Semiconductor Material and Device Characterization - 1990 - pages 1-40		
AV		STEVENS, Anthony K. Introduction to Component Testing - 1986 - pages 3-14 & pages 91-118		
AV		ZORIAN, Yervant, "Testing the Monster Chip" - IEEE Spectrum, (July 1999) - Pages 54-60		

Examiner Signature	<i>Jeremy Nguyen</i>	Date Considered	<i>10/29/04</i>
--------------------	----------------------	-----------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.